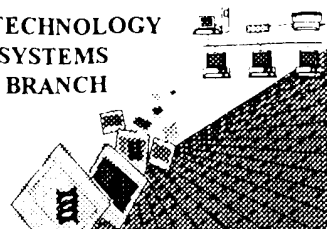


1614

## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



TECH CENTER 1600/2900

03/3  
FEB 26 2002

RECEIVED

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/882,509  
Source: 1614  
Date Processed by STIC: 2/12/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 3.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

# Raw Sequence Listing Error Summary

## ERROR DETECTED

## SUGGESTED CORRECTION

SERIAL NUMBER: 09/882,509

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics  
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino  
Numbering The numbering under each 5<sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) \_\_\_\_\_ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0  
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences  
(OLD RULES) Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
This sequence is intentionally skipped  
  
Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences  
(NEW RULES) Sequence(s) \_\_\_\_\_ missing. If intentional, please insert the following lines for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 9 Use of n's or Xaa's  
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>  
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) \_\_\_\_\_ missing the <220> "Feature" and associated numeric identifiers and responses.  
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0  
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



1614

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/882,509

DATE: 02/12/2002

TIME: 12:21:57

Input Set : A:\51321003.txt

Output Set: N:\CRF3\02122002\I882509.raw

3 <110> APPLICANT: Kuppusamy, Mosuvan  
 4 Srinivas, Vellimedu K  
 5 Lahiri, Subhra  
 6 Ella, Krishna  
 7 Khatri, Ghan S  
 9 <120> TITLE OF INVENTION: Recombinant Streptokinase  
 11 <130> FILE REFERENCE: 51321.003  
 13 <140> CURRENT APPLICATION NUMBER: 09/882,509  
 14 <141> CURRENT FILING DATE: 2001-06-15  
 16 <160> NUMBER OF SEQ ID NOS: 5  
 18 <170> SOFTWARE: PatentIn version 3.1

20 &lt;210&gt; SEQ ID NO: 1

21 &lt;211&gt; LENGTH: 24

22 &lt;212&gt; TYPE: DNA

23 &lt;213&gt; ORGANISM: Synthetic primer

25 &lt;400&gt; SEQUENCE: 1

26 ggaattcatg aaaaattact tatc

24

29 &lt;210&gt; SEQ ID NO: 2

30 &lt;211&gt; LENGTH: 26

31 &lt;212&gt; TYPE: DNA

32 &lt;213&gt; ORGANISM: Synthetic primer

34 &lt;400&gt; SEQUENCE: 2

35 ggatccttat ttgtcgtag ggttat

26

38 &lt;210&gt; SEQ ID NO: 3

39 &lt;211&gt; LENGTH: 1245

40 &lt;212&gt; TYPE: DNA

41 &lt;213&gt; ORGANISM: Streptococcus equisimilis (ATCC 9542)

43 &lt;400&gt; SEQUENCE: 3

44 attgctggac ctgagtggct gctagaccgt ccactgtgca acaacagcca attagttggt 60  
 46 agcggttgctg gtactgttga ggggacgaat caagacatta gtcttaaatt ttttgaaatt 120  
 48 gacctaacat cagcactgac tcactggagga aagacagagc aaggtttaag tccaaaatca 180  
 50 aaaccatttg ctactgatag tggcgcgatg ccacataaac ttgaaaaagc tgacttacta 240  
 52 aaggctattc aagaacaatt gatcgctaac gtccacagta acgacgacta ctttgagggtc 300  
 54 attgattttg caagcgatgc aaccattact gatcgaaaac gcaagggtcta ctttgctgac 360  
 56 aaagatgggt cggtaacctt gccgacccaa cctgtccaag aatttttgct aagcggacat 420  
 58 gtgcgcgtta gaccatataa agaaaaacca atacaaaatc aagcgaaatc tgttgatgtg 480  
 60 gaatatactg tacagtttac tcccttaaac cctgatgacg atttcagacc aggtctcaaa 540  
 62 gatactaagc tattgaaaac actagctatc ggtgacacca tcacatctca agaattacta 600  
 64 gctcaagcac aaagcatttt aaacaaaacc caccaggtct atacgattta tgaacgtgac 660  
 66 tcttcaatcg tcaactcatga caatgacatt ttccgtacga ttttaccatg ggatcaagag 720  
 68 tttacttacc atgtcaaaaa tcgggaacaa gcttatgaga tcaataaaaa atctgggtctg 780  
 70 aatgaagaaa taacaaacac tgacctgatc tctgagaaat attacgtcct taaaaaaggg 840  
 72 gaaaagccgt atgatccctt tgatgcgagt cacttgaaac tgttcaccat caaatacgtt 900

Does not comply  
 with the Needles

see item 10 on Error Summary Sheet

item 10

## RAW SEQUENCE LISTING

DATE: 02/12/2002

PATENT APPLICATION: US/09/882,509

TIME: 12:21:58

Input Set : A:\51321003.txt

Output Set: N:\CRF3\02122002\I882509.raw

```

74 gatgtcaaca ccaacgaatt gctaaaaagc gagcagctct taacagctag cgaacgtaac 960
76 ttagacttca gagatttata cgatcctcgt gataaggcta aactactcta caacaatctc 1020
78 gatgcttttg gtattatgga ctatacctta actggaaaaag tagaggataa tcacgatgac 1080
80 accaaccgta tcataaccgt ttatatgggc aagcgacccg aaggagagaa tgctagctat 1140
82 catttagcct atgataaaga tcgttatacc gaagaagaac gagaagttaa cagctacctg 1200
84 cgttatacag ggacacctat acctgataac cctaacgaca aataa 1245
87 <210> SEQ ID NO: 4
88 <211> LENGTH: 12
89 <212> TYPE: PRT
90 <213> ORGANISM: Streptococcus equisimilis (ATCC 9542)
92 <400> SEQUENCE: 4
94 Ile Ala Gly Pro Glu Trp Leu Leu Asp Arg Pro Ser
95 1 5 10
98 <210> SEQ ID NO: 5
99 <211> LENGTH: 5
100 <212> TYPE: PRT
101 <213> ORGANISM: Streptococcus equisimilis (ATCC 9542)
103 <400> SEQUENCE: 5
105 Lys Asp Asp Pro Asn
106 1 5

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/882,509

DATE: 02/12/2002

TIME: 12:21:59

Input Set : A:\51321003.txt

Output Set: N:\CRF3\02122002\I882509.raw

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/598,218

DATE: 02/12/2002

TIME: 12:23:46

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02122002\I598218.raw



1653

## RAW SEQUENCE LISTING

DATE: 02/12/2002

PATENT APPLICATION: US/09/598,218

TIME: 12:23:45

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02122002\I598218.raw

ENTERED

3 <110> APPLICANT: Ho, Chien  
 4 Tsai, Ching-Hsuan  
 5 Fang, Tsuei-Yun  
 6 Shen, Tong-Jian  
 8 <120> TITLE OF INVENTION: Low Oxygen Affinity Mutant Hemoglobins  
 10 <130> FILE REFERENCE: 2000-02  
 12 <140> CURRENT APPLICATION NUMBER: US 09/598,218  
 13 <141> CURRENT FILING DATE: 2000-06-21  
 15 <160> NUMBER OF SEQ ID NOS: 7  
 17 <170> SOFTWARE: PatentIn Ver. 2.1  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 28  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Artificial Sequence  
 24 <220> FEATURE:  
 25 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to  
 26 introduce betaN108Q mutation into plasmid pHE2  
 28 <400> SEQUENCE: 1  
 29 cgtctgctgg gtcaggtact agtttgcg 28  
 32 <210> SEQ ID NO: 2  
 33 <211> LENGTH: 30  
 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Artificial Sequence  
 37 <220> FEATURE:  
 38 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to  
 39 introduce mutation alphaD94A into plasmid pHE2  
 41 <400> SEQUENCE: 2  
 42 ctgcgtgttg ctccggtcaa cttcaaactg 30  
 45 <210> SEQ ID NO: 3  
 46 <211> LENGTH: 29  
 47 <212> TYPE: DNA  
 48 <213> ORGANISM: Artificial Sequence  
 50 <220> FEATURE:  
 51 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to  
 52 introduce betaL105W mutation into plasmid pHE2  
 54 <400> SEQUENCE: 3  
 55 gqaaaacttc cgatggctgg gtaacgtac 29  
 58 <210> SEQ ID NO: 4  
 59 <211> LENGTH: 27  
 60 <212> TYPE: DNA  
 61 <213> ORGANISM: Artificial Sequence  
 63 <220> FEATURE:  
 64 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/598,218

DATE: 02/12/2002

TIME: 12:23:45

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02122002\I598218.raw

```

65      introduce betaN108Q mutation into plasmid pHE7
67 <400> SEQUENCE: 4
68 acagaccagt acttgtccca ggagcct 27
71 <210> SEQ ID NO: 5
72 <211> LENGTH: 1140
73 <212> TYPE: DNA
74 <213> ORGANISM: Human
76 <400> SEQUENCE: 5
77 aaatgagctg ttgacaatta atcatcggct cgtataatgt gtggaattgt gagcggataa 60
78 caatttcaca caggaaacag aattcgagct cggtagccgg gctacatgga gattaactca 120
79 atctagaggg tattaataat gtatcgctta aataaggagg aataacatat ggtgctgtct 180
80 cctgccgaca agaccaacgt caaggccgcc tgggtaagg tcggcgcgca cgctggcgag 240
81 tatggtgcgg aggccttga gaggatgttc ctgtccttcc ccaccaccaa gacctacttc 300
82 ccgcacttcg atctgagcca cggctctgcc caggttaagg gccacggcaa gaaggtggcc 360
83 gacgcgctga ccaacgccgt ggcgcacgtg gacgacatgc ccaacgcgct gtccgccctg 420
84 agcgacctgc acgcgcacaa gcttcgggtg gaccgggtca acttcaagct cctaagccac 480
85 tgcctgctgg tgacctggc cggccacctc cccgcgagtg tcacctctgc ggtgcacgcc 540
86 tccctggaca agttcctggc ttctgtgagc accgtgctga cctccaaata ccgttaaact 600
87 agaggggtatt aataatgtat cgcttaaata aggaggaata acatatgggtg cacctgactc 660
88 ctgaggagaa gtctgccgtt actgcctgtt ggggcaaggt gaacgtggat gaagttggtg 720
89 gtgaggccct gggcaggctg ctggtggtct acccttgga cagaggttc tttgagtcct 780
90 ttggggatct gtccactcct gatgctgtta tgggcaacc taaggtgaag gctcatggca 840
91 agaaaagtgt cggtgccttt agtcatggcc tggtcacct ggacaacctc aagggaacct 900
92 ttgccacact gagtgaactg cactgtgaca agctgcacgt ggatcctgag aacttcaggc 960
93 tcttgggaca agtactgttc tgtgtgctgg cccatcactt tggcaaagaa ttcacccac 1020
94 cagtgcaggc tgcctatcag aaagtgggtg ctggtgtggc taatgccctg gccacaaagt 1080
95 atcactaagc atgcatctgt tttggcggat gagagaagat tttcagcctg atacagatta 1140
98 <210> SEQ ID NO: 6
99 <211> LENGTH: 36
100 <212> TYPE: DNA
101 <213> ORGANISM: Artificial Sequence
103 <220> FEATURE:
104 <223> OTHER INFORMATION: Description of Artificial Sequence: Primer to
105      introduce betaL105W mutation into plasmid pHE7
107 <400> SEQUENCE: 6
108 cctgagaact tcaggtggct aggcaacgtg ctggtc 36
111 <210> SEQ ID NO: 7
112 <211> LENGTH: 1140
113 <212> TYPE: DNA
114 <213> ORGANISM: Human
116 <400> SEQUENCE: 7
117 aaatgagctg ttgacaatta atcatcggct cgtataatgt gtggaattgt gagcggataa 60
118 caatttcaca caggaaacag aattcgagct cggtagccgg gctacatgga gattaactca 120
119 atctagaggg tattaataat gtatcgctta aataaggagg aataacatat ggtgctgtct 180
120 cctgccgaca agaccaacgt caaggccgcc tgggtaagg tcggcgcgca cgctggcgag 240
121 tatggtgcgg aggccttga gaggatgttc ctgtccttcc ccaccaccaa gacctacttc 300
122 ccgcacttcg atctgagcca cggctctgcc caggttaagg gccacggcaa gaaggtggcc 360
123 gacgcgctga ccaacgccgt ggcgcacgtg gacgacatgc ccaacgcgct gtccgccctg 420
124 agcgacctgc acgcgcacaa gcttcgggtg gaccgggtca acttcaagct cctaagccac 480

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## RAW SEQUENCE LISTING

DATE: 02/12/2002

PATENT APPLICATION: US/09/598,218

TIME: 12:23:45

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\02122002\I598218.raw

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126 tccctggaca agttcctggc ttctgtgagc accgtgctga cctccaaata ccgttaaact 600
127 agaggggtatt aataatgtat cgcttaaata aggaggaata acatatggtg cacctgactc 660
128 ctgaggagaa gtctgccgtt actgccctgt ggggcaaggt gaacgtggat gaagttggtg 720
129 gtgaggccct gggcaggctg ctggtggtct acccttggac ccagaggttc tttgagtcct 780
130 ttggggatct gtccactcct gatgctgtta tgggcaaccc taaggtgaag gctcatggca 840
131 agaaagtget cgggtgcctt agtgatggcc tggctcacct ggacaacctc aagggcacct 900
132 ttgccacact gagtgagctg cactgtgaca agctgcacgt ggatcctgag aacttcaggt 960
133 ggctaggcaa cgtgctggtc tgtgtgctgg cccatcactt tggcaaagaa ttcacccac 1020
134 cagtgcaggc tgcctatcag aaagtggtag ctggtgtggc taatgccctg gccacaaagt 1080
135 atcactaagc atgcatctgt tttggcggat gagagaagat tttcagcctg atacagatta 1140
```